

✓  
Please amend the paragraph beginning on Page 4, line 7 and ending on Page 4, line 15 as follows:

a<sup>2</sup>  
In the embodiment illustrated in FIG. 3, head vibration is detected by transducer 102 supported on a movable head suspension assembly and detector 104. Opposed terminals 106, 108 of the transducer 102 are oriented so that vibration or movement of the transducer along a detection axis induces a transducer signal or voltage signal across terminals 106, 108. The transducer 102 can be oriented for detecting various vibration modes of the head or air bearing.

✓  
Please amend the paragraph beginning on Page 4, line 15 and ending on Page 4, line 32 as follows:

a<sup>3</sup>  
As shown in FIG. 3, detector 104 receives a transducer signal and outputs a level detected signal indicative of head vibration as illustrated by block 112 as will be explained. In the embodiment illustrated in FIG. 3, detector 104 includes a filter 116, an amplifier 118 and level detector 120. The transducer signal is filtered to pass vibration mode frequencies for detecting at least one vibration mode. In one embodiment, filter 116 passes vibration mode frequencies for at least one of torsion or bending mode vibration. The signal is amplified by amplifier 118 and is passed through level detector 120 to output the level detected signal indicative of the vibration mode of the head. In particular, as shown in FIG. 4, the level detector 120 passes a threshold signal amplitude 122 for transducer signal 124 to output a level detected signal indicative of head vibration.

✓  
Please amend the paragraph beginning on Page 4, line 33 and ending on Page 5, line 11 as follows:

a<sup>4</sup>  
The head vibration detector can be used for testing head disc contact for design analysis or for drive diagnostics. For